



SEQUENCE LISTING

01100 Fuiz-Gpazo, Nelson

01200 METHOD OF ASSAYING MODULATORS OF
HYPERTENSION

01300 50047, 600003

01400 US 10,040,722

01410 1007-01-07

01500 US 09,053,030

01510 1000-09-01

01600 US 00/151,011

01610 1,999-09-01

01600 4

01700 FastSE₂ for Windows Version 4.0

02100 1

02110 2638

02120 DNA

02130 Rattus norvegicus

02100

02210 CDS

02220 (235)...(3309)

04000 1

ggagcctcggg cgggaggagg cggacaagtg gcagcggcgg cggcagcggc agcagcagcg 60
ggggcagcag cgggggcctc ggtcgggggc gccggcgcgc ctccctcttt cctcggggcg 120
cagcctcagc tgcgcctct cggctccccc ggcctccactc tcccagccgg gagctgctct 180
ctctctcttc tagctctcag ccacaggacc cggcgcgggg cccgcagcgc cgcacc atg 240
Met
1

ggg aag ggg ctt gga cga gac aag tat gag ccc gca gct gta tca gaa 238
Gly Lys Gly Val Gly Arg Asp Lys Tyr Glu Pro Ala Ala Val Ser Glu
5 10 15

cat ggg gac aag aag agc aag aag gcg aag aag gaa agg gac atg gac 336
His Gly Asp Lys Lys Ser Lys Lys Ala Lys Lys Glu Arg Asp Met Asp
20 25 30

gaa ctc aag aag gaa gtg tct atg gac gac cat aaa ctc agc ctg gat 384
Glu Leu Lys Lys Glu Val Ser Met Asp Asp His Lys Leu Ser Leu Asp
35 40 45

gaa ctc cat cgt aaa tac gga aca gat ttg agc cga ggc cta aca ccc 432
Glu Leu His Arg Lys Tyr Gly Thr Asp Leu Ser Arg Gly Leu Thr Pro
50 55 60 65

gca agg gcc gct gag atc ctg gct cgg gat ggc ccc aac gcc ctc acg 480
Ala Arg Ala Ala Glu Ile Leu Ala Arg Asp Gly Pro Asn Ala Leu Thr
70 75 80

ccc cct ccc act act ccc gag tgg gtc aaa ttc tgt cgg cag ctg ttc 528
 Pro Pro Pro Thr Thr Pro Glu Trp Val Lys Phe Cys Arg Gln Leu Phe
 85 90 95

ggt ggc ttc tcc atg tta ctg tgg att gga gcc att ctt tgt ttc ttg 576
 Gly Gly Phe Ser Met Leu Leu Trp Ile Gly Ala Ile Leu Cys Phe Leu
 100 105 110

gct tat gcc atc cga agt gct aca gaa gag gaa cca cca aat gat gat 624
 Ala Tyr Gly Ile Arg Ser Ala Thr Glu Glu Glu Pro Pro Asn Asp Asp
 115 120 125

ctg tac ctc ggg gtc gtg ctg tct gct gtc gtc atc ata act ggc tgt 672
 Leu Tyr Leu Gly Val Val Leu Ser Ala Val Val Ile Ile Thr Gly Cys
 130 135 140 145

ttc tcc tat tat caa gaa gca aaa agc tcc aag atc atg gaa tcc ttc 720
 Phe Ser Tyr Tyr Gln Glu Ala Lys Ser Ser Lys Ile Met Glu Ser Phe
 150 155 160

aag aac atg gtc cct cag caa gcc ctc gtg att cga aat gga gag aag 768
 Lys Asn Met Val Pro Gln Gln Ala Leu Val Ile Arg Asn Gly Glu Lys
 165 170 175

atg agc atc aac gca gag gat gtc gtc gtt ggt gat ctg gtg gag gtg 816
 Met Ser Ile Asn Ala Glu Asp Val Val Val Gly Asp Leu Val Glu Val
 180 185 190

aag gcc gga gac cga atc cct gct gat ctc aga atc ata tct gca aat 864
 Lys Gly Gly Asp Arg Ile Pro Ala Asp Leu Arg Ile Ile Ser Ala Asn
 195 200 205

gcc tgc aag gtg gat aac tcc tca ctc act ggt gaa tca gaa ccc cag 912
 Gly Cys Lys Val Asp Asn Ser Ser Leu Thr Gly Glu Ser Glu Pro Gln
 210 215 220 225

act cgg tcc ccg gat ttc aca aac gag aac ccc ttg gag aca agg aac 960
 Thr Arg Ser Pro Asp Phe Thr Asn Glu Asn Pro Leu Glu Thr Arg Asn
 230 235 240

att gcc ttc ttc tca acc aac tgt gtt gaa gga act gca cgt gcc atc 1008
 Ile Ala Phe Phe Ser Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile
 245 250 255

gtt gtg tac act ggg gat gcc acc gtg atg gcc agg atc gcc acc ctt 1056
 Val Val Tyr Thr Gly Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu
 260 265 270

gct tct ggg ctg gaa gcc gcc cag acc ccc att gct gaa gaa atc gag 1104
 Ala Ser Gly Leu Glu Gly Gly Gln Thr Pro Ile Ala Glu Glu Ile Glu
 275 280 285

cac ttc atc cac ctc atc acg ggt gtg gcc gtg ttc ctg ggg gtg tct 1152
 His Phe Ile His Leu Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser
 290 295 300 305

ttc ttc att ctc tct ctg atc ctt gag tac acc tgg ctc gag gct gtc 1200
 Phe Phe Ile Leu Ser Leu Ile Leu Glu Tyr Thr Trp Leu Glu Ala Val

310	315	320	
atc ttc ctc att ggt atc atc gta gcc aac gtg cag gaa ggt ttg ctg Ile Phe Leu Ile Gly Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu 325 330 335			1248
gcc acc gtc aag gta tgt ctg acg ctc act gcc aag cgc atg gcg agg Ala Thr Val Thr Val Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg 340 345 350			1296
aag aac tgc ctg gtg aac aac ctg gaa gct gtg gag acc ttg ggg tcc Lys Asn Cys Leu Val Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser 355 360 365			1344
aca tcc acc atc tgc tcc gag aag act gga act ctg act cag aac cgg Thr Ser Thr Ile Cys Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg 370 375 380 385			1392
atg aca gtg gct cac atg tgg ttt gac aat caa atc cat gaa gct gac Met Thr Val Ala His Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp 390 395 400			1440
acc aca gag aat cag agt ggg gtc tcc ttt gac aag acg tca gcc acc Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala Thr 405 410 415			1488
tgg ttc gct ctg tcc aga att gct ggt ctc tct aac agg gca gtg ttt Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe 420 425 430			1536
cag gct aac caa gaa aac ctg cct atc ctt aag cgt gca gta gcg gga Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala Gly 435 440 445			1584
gat gct tcc gag tgc ggc ctc tta aag tgc atc gag gtc tgc tgt ggc Asp Ala Ser Glu Ser Ala Leu Leu Lys Cys Ile Glu Val Cys Cys Gly 450 455 460 465			1632
tcc gtg atg gag atg agg gag aag tac acc aag ata gtg gag att cct Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile Pro 470 475 480			1680
ttc aac tcc acc aac aag tac cag ctc tcc att cac aag aac cca acc Phe Asn Ser Thr Asn Lys Tyr Gln Leu Ser Ile His Lys Asn Pro Asn 485 490 495			1728
gca tgc cag cct aag cac ctg cta gtg atg aag gcc gcc cca gaa agg Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu Arg 500 505 510			1776
atc ctg cac cga tgc agt ttt atc ctc ctc cac gcc aag gag cag acc Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln Pro 515 520 525			1824
ctg gac gaa gag ctg aag gac gcc ttt cag aat gcc tac cta gag ctg Leu Asp Glu Glu Leu Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu Leu 530 535 540 545			1872
ggg gcc ctt gga gag cgt gtg cta ggt ttc tgc cac ctc ctt ctg cct			1920

Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu Pro
550 555 560

gac gaa cag ttt ccc gaa ggc ttc cag ttt gac act gat gaa gtc aat 1063
Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asn Thr Asp Glu Val Asn
565 570 575

ttc ccc gtg gat aac ctc tga ttc gtg ggt ctt atc tcc atg att gac 2016
Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile Asp
580 585 590

cct cct cga gct gct gtc ccc gat gct gtc ggc aaa tgc cgc agc gct 2064
Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser Ala
595 600 605

agg att aag gtc atc atg ctc aca gga gac cac cca atc aca gcc aaa 2112
Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala Lys
610 615 620 625

gcc att gct aag ggg cgg agc att atc tca gaa ggt aac gag acc gtg 2160
Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr Val
630 635 640

gaa gac att gct gcc cgc ctc aac att cca gtg aac cag gtg aac ccc 2208
Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn Pro
645 650 655

aga gat gcc aag gcc tgt ata gta cat ggc agt gac ttg aag gac atg 2256
Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp Met
660 665 670

acc tct gag gag ctg gat gac att ttg cgg tac cac acg gag att gtc 2304
Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile Val
675 680 685

ttt gct agg acc tct cct caa cag aag ctc atc att gtg gag ggc tgc 2352
Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Ile Val Glu Gly Cys
690 695 700 705

cag cgg cag ggt gcc atc gtg gct gtc aca ggg gat ggt gtc aat gac 2400
Gln Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn Asp
710 715 720

tct cca gct ttg aaa aag gca gat att ggg gtt gcc atg ggg att gtt 2448
Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile Val
725 730 735

ggc tcc gat gtg tcc aag caa gct gct gac atg att ctt ctg gat gac 2496
Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp Asp
740 745 750

aac ttt gcc tcc atc gtg act gga gta gaa gaa gct cgt ctg ata ttt 2544
Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile Phe
755 760 765

gat aac ttg aag aaa tcc att gct tac acc cta aca agt aac att ccg 2592
Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro
770 775 780 785

gaa atc acc ccc ttc ttg ata ttt att att gca aac att cca ctg ccc	2640
Glu Ile Thr Pro Phe Leu Ile Phe Ile Ile Ala Asn Ile Pro Leu Pro	
790 795 800	
ctg ggc acc gtg acc atc ctr tga att gac ttg ggc act gac atg gtt	2688
Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val	
805 810 815	
ccc gcc atc tct ctg gcc tat gaa cag gct gaa agt gac atc atg aag	2736
Pro Ala Ile Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys	
820 825 830	
agg cag ccc aga aat ccc aaa acg gac aaa ctt gtg aac gag cgt ctg	2784
Arg Gln Pro Arg Asn Pro Lys Phe Asp Lys Leu Val Asn Glu Arg Leu	
835 840 845	
atc agc atc gcc tat gga cag atc ggt atg atc cag gcc ctg gga ggc	2832
Ile Ser Met Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly	
850 855 860 865	
ttc ttc act tat ttc gtg att ctg gct gag aac ggt ttc ctg ccc ttt	2880
Phe Phe Thr Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Phe	
870 875 880	
cac ctg ttg ggc atc cga gag acc tgg cat gac cgc tgg atc aat gat	2928
His Leu Leu Gly Ile Arg Glu Thr Trp Asp Asp Arg Trp Ile Asn Asp	
885 890 895	
gtg gag gac agc tac ggg cag cag tgg acc tac gac cag agg aag att	2976
Val Glu Asp Ser Tyr Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys Ile	
900 905 910	
gtg gag ttc acc tgc cac acg gcc ttc ttt gtc agt atc gtg gta gtg	3024
Val Glu Phe Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val Val	
915 920 925	
cag tgg gct gac ttg gtc atc tgc aag acc aga agg aat tct gtc ttc	3072
Gln Trp Ala Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val Phe	
930 935 940 945	
cag cag gga atg aag aac aag atc tta ata ttt ggc ctc ttt gaa gag	3120
Gln Gln Gly Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu Glu	
950 955 960	
aca gct ctt gct gct ttc ctg tcc tac tgc cct ggg atg ggt gca gcc	3168
Thr Ala Leu Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Ala Ala	
965 970 975	
ctt agg atg tat ccc ctc aaa cct act tgg tgg ttc tgt gcc ttc ccc	3216
Leu Arg Met Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe Pro	
980 985 990	
tac tcc ctc ctc atc ttc gtg tac gac gag gtg cgg aag ctc atc atc	3264
Tyr Ser Leu Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile Ile	
995 1000 1005	
agg cga ggc cct ggc ggc tgg gtg gag aag gaa acc tac tac tag	3309
Arg Arg Arg Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr *	
1010 1015 1020	

ccactgccc tgcacgcgt ggaacattgt jccacacact gcactaccc ctaccccccc 3369
 ttgtgtact tcaagtcttg gagctcggaa ctctacccctg gtaggaaagc accaaagcat 3429
 gtggggatcc agacgtcttg gaatgaagca tctagctgta atggggggcg gggggagggc 3489
 tgcctgaaaa acacgttgga cggggacgac aggggggaag gtttatatgt gcctttttgt 3549
 ttttttaaaa aaggaaaacc tggaaaagact gaaagattac gttttatata tggattttta 3609
 caaa'aaaga tggctattat aacggaa 3636

4210 - 1

4211 - 1022

4212 - FRT

4213 - Fattus norvegicus

4400 - 1

Met	Gly	Lys	Gly	Val	Gly	Arg	Asp	Lys	Tyr	Glu	Pro	Ala	Ala	Val	Ser
1			5					10						15	
His	Gly	Asp	Lys	Lys	Ser	Lys	Lys	Ala	Lys	Lys	Glu	Arg	Asp	Met	
	20					25						30			
Asp	Glu	Leu	Lys	Lys	Glu	Val	Ser	Met	Asp	Asp	His	Lys	Leu	Ser	Leu
	35					40						45			
Asp	Glu	Leu	His	Arg	Lys	Tyr	Gly	Thr	Asp	Leu	Ser	Arg	Gly	Leu	Thr
	50				55						60				
Pro	Ala	Arg	Ala	Ala	Glu	Ile	Leu	Ala	Arg	Asp	Gly	Pro	Asn	Ala	Leu
	65			70					75					80	
Thr	Pro	Pro	Pro	Thr	Thr	Pro	Glu	Trp	Val	Lys	Phe	Cys	Arg	Gln	Leu
			85					90						95	
Phe	Gly	Gly	Phe	Ser	Met	Leu	Leu	Trp	Ile	Gly	Ala	Ile	Leu	Cys	Phe
			100					105					110		
Leu	Ala	Tyr	Gly	Ile	Arg	Ser	Ala	Thr	Glu	Glu	Glu	Pro	Pro	Asn	Asp
		115					120					125			
Asp	Leu	Tyr	Leu	Gly	Val	Val	Leu	Ser	Ala	Val	Val	Ile	Ile	Thr	Gly
	130					135						140			
Cys	Phe	Ser	Tyr	Tyr	Gln	Glu	Ala	Lys	Ser	Ser	Lys	Ile	Met	Glu	Ser
	145				150				155					160	
Phe	Lys	Asn	Met	Val	Pro	Gln	Gln	Ala	Leu	Val	Ile	Arg	Asn	Gly	Glu
			165					170						175	
Lys	Met	Ser	Ile	Asn	Ala	Glu	Asp	Val	Val	Val	Gly	Asp	Leu	Val	Glu
		180					185						190		
Val	Lys	Gly	Gly	Asp	Arg	Ile	Pro	Ala	Asp	Leu	Arg	Ile	Ile	Ser	Ala
	195					200						205			
Asn	Gly	Cys	Lys	Val	Asp	Asn	Ser	Ser	Leu	Thr	Gly	Glu	Ser	Glu	Pro
	210					215						220			
Gln	Thr	Arg	Ser	Pro	Asp	Phe	Thr	Asn	Glu	Asn	Pro	Leu	Glu	Thr	Arg
	225				230				235					240	
Asn	Ile	Ala	Phe	Phe	Ser	Thr	Asn	Cys	Val	Glu	Gly	Thr	Ala	Arg	Gly
			245					250						255	
Ile	Val	Val	Tyr	Thr	Gly	Asp	Arg	Thr	Val	Met	Gly	Arg	Ile	Ala	Thr
		260					265						270		
Leu	Ala	Ser	Gly	Leu	Glu	Gly	Gln	Thr	Pro	Ile	Ala	Glu	Glu	Ile	
	275					280					285				
Glu	His	Phe	Ile	His	Leu	Ile	Thr	Gly	Val	Ala	Val	Phe	Leu	Gly	Val
	290					295				300					
Ser	Phe	Phe	Ile	Leu	Ser	Leu	Ile	Leu	Glu	Tyr	Thr	Trp	Leu	Glu	Ala
	305				310				315					320	
Val	Ile	Phe	Leu	Ile	Gly	Ile	Ile	Val	Ala	Asn	Val	Pro	Glu	Gly	Leu
			325					330						335	
Leu	Ala	Thr	Val	Thr	Val	Cys	Leu	Thr	Leu	Thr	Ala	Lys	Arg	Met	Ala
		340						345					350		
Arg	Lys	Asn	Cys	Leu	Val	Lys	Asn	Leu	Glu	Ala	Val	Glu	Thr	Leu	Gly

	355		360		365
Ser Thr Ser Thr Ile Cys	Ser Asp Lys Thr Gly Thr	Leu Thr Gln Asn			
370	375	380			
Arg Met Thr Val Ala His Met Trp Phe Asp Asn Gln Ile His Glu Ala					
385	390	395			400
Asp Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala					
	405	410			415
Thr Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val					
	420	425			430
Phe Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala					
	435	440			445
Gly Asp Ala Ser Glu Ser Ala Leu Leu Lys Cys Ile Glu Val Cys Cys					
	450	455			460
Gly Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile					
465	470	475			480
Pro Phe Asn Ser Thr Asn Lys Tyr Gln Leu Ser Ile His Lys Asn Pro					
	485	490			495
Asn Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu					
	500	505			510
Arg Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln					
	515	520			525
Pro Leu Asp Glu Glu Leu Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu					
	530	535			540
Leu Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu					
545	550	555			560
Pro Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asp Thr Asp Glu Val					
	565	570			575
Asn Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile					
	580	585			590
Asp Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser					
	595	600			605
Ala Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala					
	610	615			620
Lys Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr					
625	630	635			640
Val Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn					
	645	650			655
Pro Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp					
	660	665			670
Met Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile					
	675	680			685
Val Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Ile Val Glu Gly					
	690	695			700
Cys Gln Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn					
705	710	715			720
Asp Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile					
	725	730			735
Val Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp					
	740	745			750
Asp Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile					
	755	760			765
Phe Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile					
	770	775			780
Pro Glu Ile Thr Pro Phe Leu Ile Phe Ile Ile Ala Asn Ile Pro Leu					
785	790	795			800
Pro Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met					
	805	810			815
Val Pro Ala Ile Ser Leu Ala Tyr Gln Gln Ala Glu Ser Asp Ile Met					
	820	825			830

Lys Arg Gln Pro Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Glu Arg
 335 840 845
 Leu Ile Ser Met Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly
 850 855 860
 Gly Phe Phe Thr Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro
 865 870 875 880
 Phe His Leu Leu Gly Ile Arg Glu Thr Trp Asp Asp Arg Trp Ile Asn
 885 890 895
 Asp Val Glu Asp Ser Tyr Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys
 900 905 910
 Ile Val Glu Phe Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val
 915 920 925
 Val Gln Trp Ala Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val
 930 935 940
 Phe Gln Gln Gly Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu
 945 950 955 960
 Glu Thr Ala Leu Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Ala
 965 970 975
 Ala Leu Arg Met Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe
 980 985 990
 Pro Tyr Ser Leu Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile
 995 1000 1005
 Ile Arg Arg Arg Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr
 1010 1015 1020

4110: 3
 4211: 3036
 4112: DNA
 4213: *Fattus norvegicus*

4120:
 4211: CDS
 4221: (238)...(3309)

4400: 3
 agagcctcggg cgggaggagg cggacacgtg gcagcggcgg cggcagcggg agcagcagcg 60
 cgggagcag cggcggcctc ggtccggggc gcggcggcgt ctcctctctt cctccggcgg 120
 cagccttagt tccgcctct cggctccccc ggtccactc tcccagcggg gacctgctct 180
 ctctctcttc tagctctcag ccacaggacc cggcggcggg cccgcagcgc cgcacc atg 240
 Met
 1

ggg aag ggg gtt gga cga gac aag tat gag ccc gca gct gta tca gaa 283
 Gly Lys Gly Val Gly Arg Asp Lys Tyr Glu Pro Ala Ala Val Ser Glu
 5 10 15

cat ggg gac aag aag agc aag aag cgc aag aag gaa agg gac atg gac 336
 His Gly Asp Lys Lys Ser Lys Lys Ala Lys Lys Glu Arg Asp Met Asp
 20 25 30

gaa ctr aag aag gaa gtg tct atg gac gac cat aaa ctc agc ctg gat 384
 Glu Leu Lys Lys Glu Val Ser Met Asp Asp His Lys Leu Ser Leu Asp
 35 40 45

gaa ctc cat cgt aaa tac gga aca gat ttg agc cga ggc cta aca ccc 432
 Glu Leu His Arg Lys Tyr Gly Thr Asp Leu Ser Arg Gly Leu Thr Pro
 50 55 60 65

gca agg gcc gct gag atc ctg gct cgg gat ggc ccc aac gcc ctg aag	480
Ala Arg Ala Ala Glu Ile Leu Ala Arg Asp Gly Pro Asn Ala Leu Thr	
70 75 80	
ccc cct ccc act act ccc gag tgg gtc aaa ttc tgt cgg cag ctg ttc	528
Pro Pro Pro Thr Thr Pro Glu Trp Val Lys Phe Cys Arg Gln Leu Phe	
35 90 95	
ggt ggc ttc tcc atg tta ctg tgg att gga gcc att ctt tgt ttc ttg	576
Gly Gly Phe Ser Met Leu Leu Trp Ile Gly Ala Ile Leu Cys Phe Leu	
100 105 110	
gct tat ggc atc cga agt gct aca gaa gag gaa cca cca aat gat gat	624
Ala Tyr Gly Ile Arg Ser Ala Thr Glu Glu Glu Pro Pro Asn Asp Asp	
115 120 125	
ctg tac ctg ggg gtc gtg ctg tct gct gtc gtc atc ata act ggc tgt	672
Leu Tyr Leu Gly Val Val Leu Ser Ala Val Val Ile Ile Thr Gly Cys	
130 135 140 145	
ttc tcc tat tat caa gaa gca aaa agc tcc aag atc atg gaa tcc ttc	720
Phe Ser Tyr Tyr Gln Glu Ala Lys Ser Ser Lys Ile Met Glu Ser Phe	
150 155 160	
aag aac atg gtc cct cag caa gcc ctg gtg att cga aat gga gag aag	768
Lys Asn Met Val Pro Gln Gln Ala Leu Val Ile Arg Asn Gly Glu Lys	
165 170 175	
atg agc atc aac gca gag gat gtc gtc gtt ggt gat ctg gtg gag gtg	816
Met Ser Ile Asn Ala Glu Asp Val Val Val Gly Asp Leu Val Glu Val	
180 185 190	
aag gcc gga gag cga atc cct gct gat ctg aga atc ata tct gca aat	864
Lys Gly Gly Asp Arg Ile Pro Ala Asp Leu Arg Ile Ile Ser Ala Asn	
195 200 205	
ggc tgc aag gtg gat aac tcc tca ctg act ggt gaa tca gaa ccc cag	912
Gly Cys Lys Val Asp Asn Ser Ser Leu Thr Gly Glu Ser Glu Pro Gln	
210 215 220 225	
act cgg tcc ccg gat ttc aca aac gag aac ccc ttg gag aca agg aac	960
Thr Arg Ser Pro Asp Phe Thr Asn Glu Asn Pro Leu Glu Thr Arg Asn	
230 235 240	
att gcc ttc ttc tca acc aac tgt gtt caa gga act gca cgt gcc atc	1008
Ile Ala Phe Phe Ser Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile	
245 250 255	
gtt gtg tac act ggg gat cgc acc gtg atg ggc aag atc gcc acc ctt	1056
Val Val Tyr Thr Gly Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu	
260 265 270	
gct tat ggg ctg gaa ggc gcc ctg acc ccc att gct gaa gaa atc gag	1104
Ala Ser Gly Leu Glu Gly Gly Leu Thr Pro Ile Ala Glu Glu Ile Glu	
275 280 285	
cac ttc atc cac ctg atc aag ggt gtg gcc gtg ttc ctg ggg gtg tct	1152
His Phe Ile His Leu Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser	
290 295 300 305	

ttc ttc att ctc tct ctg atc ctt gag tac acc tgg ctc gag gct gtc Phe Phe Ile Leu Ser Leu Ile Leu Glu Tyr Thr Trp Leu Glu Ala Val 310 315 320	1200
atc ttc ctc att ggt atc atc gta gcc aac gtg ccg gaa ggt ttg ctg Ile Phe Leu Ile Gly Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu 325 330 335	1243
gcc acc gtc acg gta tgt ctg acg ctc act gcc aag cgc atg gcg agg Ala Thr Val Thr Val Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg 340 345 350	1296
aag aac tgc ctg gtg aag aac ctg gaa gct gtg gag acc ttg ggg tcc Lys Asn Cys Leu Val Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser 355 360 365	1344
aca tcc acc atc tgc tcc gac aag act gga act ctg act cag aac cgg Thr Ser Thr Ile Cys Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg 370 375 380 385	1397
atg aca gtg gct cac atg tgg ttt gac aat caa atc cat gaa gct gac Met Thr Val Ala His Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp 390 395 400	1440
acc aca gag aat cag agt ggg gtc tcc ttt gac aag acg tca gcc acc Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala Thr 405 410 415	1483
tgg ttc gct ctg tcc aga att gct ggt ctc tgt aac agg gca gtg ttt Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe 420 425 430	1536
cag gct aac caa gaa aac ctg cct atc ctt aag cgt gca gta gcg gga Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala Gly 435 440 445	1584
gat gct tcc gag tgg ggg ctc tta aag tgc atc gag gtc tgc tgt ggc Asp Ala Ser Glu Ser Ala Leu Leu Lys Cys Ile Glu Val Cys Cys Gly 450 455 460 465	1632
tcc gtg atg gag atg agg gag aag tac acc aag ata gtg gag att gcc Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile Pro 470 475 480	1680
ttc aac tcc acc aac aag tac cag ctc tcc att cac aag aac cca aac Phe Asn Ser Thr Asn Lys Tyr Gln Leu Ser Ile His Lys Asn Pro Asn 485 490 495	1728
gca tgg cag cct aag cac ctg cta gtg atg aag ggc gcc cca gaa agg Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu Arg 500 505 510	1776
atc ctg gac cga tgc agt tct atc ctc ctc cac ggc aag gag cag ccc Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln Pro 515 520 525	1824
ctg gac gaa gag ctg aag gac gcc ttt cag aat gcc tac cta gag ctg Leu Asp Glu Glu Leu Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu Leu 530 535 540	1872

530	535	540	545	
ggg ggc ctt gga gag cgt gtg cta ggt ttc tgc cac ctc ctt ctg cct				1920
Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu Pro				
550	555	560		
gac gaa cag ttt ccc gaa ggc ttc cag ttt gac act gat gaa gtc aat				1968
Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asp Thr Asp Glu Val Asn				
565	570	575		
ttc ccc gtg gat aac ctc tgc ttc gtg ggt ctt atc tcc atg att gac				2016
Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile Asp				
580	585	590		
cct cct cga gct gct gtc ccc gat gct gtg ggc aaa tgc cgc agc gct				2064
Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser Ala				
595	600	605		
ggg att aag gtc atc atg gtc aca gga gac cat cca atc aca gcc aaa				2112
Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala Lys				
610	615	620	625	
gcc att gct aag ggg gtg ggc att atc tca gaa ggt aac gag acc gtg				2160
Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr Val				
630	635	640		
gaa gac att gct gcc cgc ctc aac att cca gtg aac cag gtg aac ccc				2208
Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn Pro				
645	650	655		
aga gat gcc aag gcc tgt gta gta cat ggc agt gac ttg aag gac atg				2256
Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp Met				
660	665	670		
acc tct gag gag ctg gat gac att ttg cgg tac cac acg gag att gtc				2304
Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile Val				
675	680	685		
ttt gct agg acc tct cct cca cag aag ctc atc att gtg gag ggc tgc				2352
Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Ile Val Glu Gly Cys				
690	695	700	705	
cag cgg cag ggt gcc atc gtg gct gtc aca ggg gac ggt gtc aat gac				2400
Gln Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn Asp				
710	715	720		
tct cca gct ttg aaa aag cca gat att ggg gtt gcc atg ggg att gtt				2448
Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile Val				
725	730	735		
ggc tcy gat gtg tcc aag cca gct gct gac atg att ctt ctg gat gac				2496
Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp Asp				
740	745	750		
aac ttt gcc tcc atc gtg act gga gta gaa gaa ggt cgt ctg ata ttt				2544
Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile Phe				
755	760	765		
gat aac ttg aag aaa tcc att gct tac acc cta aca agt aac att cgg				2592

Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro
 770 775 780 785

gaa atc acc ccc ttc ttg ata ttt att att gca aac att cca ctg ccc 2640
 Glu Ile Thr Pro Phe Leu Ile Phe Ile Ile Ala Asn Ile Pro Leu Pro
 790 795 800

ctg ggc acc gtg acc atc ctg tgc att gac ttg ggc act gac atg gtt 2688
 Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val
 805 810 815

ccc gcc atc tct ctg gcc tat gaa cag gct gaa agt gac atc atg aag 2736
 Pro Ala Ile Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys
 820 825 830

agg cag ccc aga aat ccc aaa acg gac aaa ctt gtg aac gag cgt ctg 2784
 Arg Gln Pro Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Glu Arg Leu
 835 840 845

atc agg atg gcc tat gga cag atc ggt atg atc cag gcc ctg gga ggc 2832
 Ile Ser Met Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly
 850 855 860 865

ttc ttc act tat ttt gtg att ctg gct gag aac ggt ttc ctg ccc ttt 2880
 Phe Phe Thr Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Phe
 870 875 880

cac ctg ttg gcc atc cga gag acc tgg gat gac cgc tgg att aat gat 2928
 His Leu Leu Gly Ile Arg Glu Thr Trp Asp Asp Arg Trp Ile Asn Asp
 885 890 895

gtg gag gac agc tac ggg cag cag tgg acc tac gag cag agg aag att 2976
 Val Glu Asp Ser Tyr Gly Gln Thr Tip Thr Tyr Glu Gln Arg Lys Ile
 900 905 910

gtg gag ttc acc tgc cac acg gcc ttc ttt gtc agt atc gtg gta gtg 3024
 Val Glu Phe Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val Val
 915 920 925

cag tgg gct gac ttg gtc atc tgc aag acc aga agg aat tct gtc ttc 3072
 Gln Trp Ala Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val Phe
 930 935 940 945

cag cag gga atg aag aac aag atc tia ata ttt ggc ctc ttt gaa gag 3120
 Gln Gln Gly Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu Glu
 950 955 960

aca gct ctt gct gct ttc ctg tcc tac tgc cct ggg atg ggt gca gcc 3168
 Thr Ala Leu Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Ala Ala
 965 970 975

ctt agg agt tat ccc ctc aaa cct act tgg tgg ttc tat gcc ttc ccc 3216
 Leu Arg Met Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe Pro
 980 985 990

tac ttc ctt ctc atc ttc gtg tat gac gag gtg cgg aag ctc atc atc 3264
 Tyr Ser Leu Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile Ile
 995 1000 1005

agg cga cgc cct ggc ggc tgg gtg gag aag gaa acc tac tac tag 3309
 Arg Arg Arg Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr *
 1010 1015 1020

cacactgccc tgcacgcctt ggaacattgt ggcacacact gcaactaccc ctaccccccc 3369
 tttgtgtaac tcaagtcttg gagctcggaa ctctacccctg gtaggaaagg accaaagcat 3429
 ggggggatac aga gtctctg gaatgaagca tgtagctgta atggggggcg ggaggaggac 3489
 tgcacgaaaa acacgttggg aggggaacac agcgggggaa gtttatatgt gc tttttgt 3549
 ttttgtaaaa aaggaaaccc tggaaagact gaaagattac gttttatata tggattttta 3609
 caataaaga tgggtattat aacggaa 3636

02100 4
 02110 1023
 02120 FRT
 02130 Fastus norvegicus

0400 4
 Met Gly Lys Gly Val Gly Arg Asp Lys Tyr Glu Pro Ala Ala Val Ser
 5 10 15
 Glu His Gly Asp Lys Lys Ser Lys Lys Ala Lys Lys Glu Arg Asp Met
 20 25 30
 Asp Glu Leu Lys Lys Glu Val Ser Met Asp Asp His Lys Leu Ser Leu
 35 40 45
 Asp Glu Leu His Arg Lys Tyr Gly Thr Asp Leu Ser Arg Gly Leu Thr
 50 55 60
 Pro Ala Arg Ala Ala Glu Ile Leu Ala Arg Asp Gly Pro Asn Ala Leu
 65 70 75 80
 Thr Pro Pro Pro Thr Thr Pro Glu Trp Val Lys Phe Cys Arg Gln Leu
 85 90 95
 Phe Gly Gly Phe Ser Met Leu Leu Trp Ile Gly Ala Ile Leu Cys Phe
 100 105 110
 Leu Ala Tyr Gly Ile Arg Ser Ala Thr Glu Glu Glu Pro Pro Asn Asp
 115 120 125
 Asp Leu Tyr Leu Gly Val Val Leu Ser Ala Val Val Ile Ile Thr Gly
 130 135 140
 Cys Phe Ser Tyr Tyr Gln Glu Ala Lys Ser Ser Lys Ile Met Glu Ser
 145 150 155 160
 Phe Lys Asn Met Val Pro Gln Gln Ala Leu Val Ile Arg Asn Gly Glu
 165 170 175
 Lys Met Ser Ile Asn Ala Glu Asp Val Val Val Gly Asp Leu Val Glu
 180 185 190
 Val Lys Gly Gly Asp Arg Ile Pro Ala Asp Leu Arg Ile Ile Ser Ala
 195 200 205
 Asn Gly Cys Lys Val Asp Asn Ser Ser Leu Thr Gly Glu Ser Glu Pro
 210 215 220
 Gln Thr Arg Ser Pro Asp Phe Thr Asn Glu Asn Pro Leu Glu Thr Arg
 225 230 235 240
 Asn Ile Ala Phe Phe Ser Thr Asn Cys Val Glu Gly Thr Ala Arg Gly
 245 250 255
 Ile Val Val Tyr Thr Gly Asp Arg Thr Val Met Gly Arg Ile Ala Thr
 260 265 270
 Leu Ala Ser Gly Leu Glu Gly Gly Leu Thr Pro Ile Ala Glu Glu Ile
 275 280 285
 Glu His Phe Ile His Leu Ile Thr Gly Val Ala Val Phe Leu Gly Val
 290 295 300
 Ser Phe Phe Ile Leu Ser Leu Ile Leu Glu Tyr Thr Trp Leu Glu Ala
 305 310 315 320
 Val Ile Phe Leu Ile Gly Ile Ile Val Ala Asn Val Pro Glu Gly Leu
 325 330 335

Leu Ala Thr Val Thr Val Cys Leu Thr Leu Thr Ala Lys Arg Met Ala
 340 345 350
 Arg Lys Asn Cys Leu Val Lys Asn Leu Glu Ala Val Glu Thr Leu Gly
 355 360 365
 Ser Thr Ser Thr Ile Cys Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn
 370 375 380
 Arg Met Thr Val Ala His Met Trp Phe Asp Asn Gln Ile His Glu Ala
 385 390 400
 Asp Thr Thr Glu Asn Gln Ser Gly Val Ser Phe Asp Lys Thr Ser Ala
 405 410 415
 Thr Trp Phe Ala Leu Ser Arg Ile Ala Gly Leu Cys Asn Arg Ala Val
 420 425 430
 Phe Gln Ala Asn Gln Glu Asn Leu Pro Ile Leu Lys Arg Ala Val Ala
 435 440 445
 Gly Asp Ala Ser Glu Ser Ala Leu Leu Lys Cys Ile Glu Val Cys Cys
 450 455 460
 Gly Ser Val Met Glu Met Arg Glu Lys Tyr Thr Lys Ile Val Glu Ile
 465 470 475 480
 Pro Phe Asn Ser Thr Asn Lys Tyr Gln Leu Ser Ile His Lys Asn Pro
 485 490 495
 Asn Ala Ser Glu Pro Lys His Leu Leu Val Met Lys Gly Ala Pro Glu
 500 505 510
 Arg Ile Leu Asp Arg Cys Ser Ser Ile Leu Leu His Gly Lys Glu Gln
 515 520 525
 Pro Leu Asp Glu Glu Leu Lys Asp Ala Phe Gln Asn Ala Tyr Leu Glu
 530 535 540
 Leu Gly Gly Leu Gly Glu Arg Val Leu Gly Phe Cys His Leu Leu Leu
 545 550 555 560
 Pro Asp Glu Gln Phe Pro Glu Gly Phe Gln Phe Asp Thr Asp Glu Val
 565 570 575
 Asn Phe Pro Val Asp Asn Leu Cys Phe Val Gly Leu Ile Ser Met Ile
 580 585 590
 Asp Pro Pro Arg Ala Ala Val Pro Asp Ala Val Gly Lys Cys Arg Ser
 595 600 605
 Ala Gly Ile Lys Val Ile Met Val Thr Gly Asp His Pro Ile Thr Ala
 610 615 620
 Lys Ala Ile Ala Lys Gly Val Gly Ile Ile Ser Glu Gly Asn Glu Thr
 625 630 635 640
 Val Glu Asp Ile Ala Ala Arg Leu Asn Ile Pro Val Asn Gln Val Asn
 645 650 655
 Pro Arg Asp Ala Lys Ala Cys Val Val His Gly Ser Asp Leu Lys Asp
 660 665 670
 Met Thr Ser Glu Glu Leu Asp Asp Ile Leu Arg Tyr His Thr Glu Ile
 675 680 685
 Val Phe Ala Arg Thr Ser Pro Gln Gln Lys Leu Ile Ile Val Glu Gly
 690 695 700
 Cys Gln Arg Gln Gly Ala Ile Val Ala Val Thr Gly Asp Gly Val Asn
 705 710 715 720
 Asp Ser Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala Met Gly Ile
 725 730 735
 Val Gly Ser Asp Val Ser Lys Gln Ala Ala Asp Met Ile Leu Leu Asp
 740 745 750
 Asp Asn Phe Ala Ser Ile Val Thr Gly Val Glu Glu Gly Arg Leu Ile
 755 760 765
 Phe Asp Asn Leu Lys Lys Ser Ile Ala Tyr Thr Leu Thr Ser Asn Ile
 770 775 780
 Pro Glu Ile Thr Pro Phe Leu Ile Phe Ile Ile Ala Asn Ile Pro Leu
 785 790 795 800
 Pro Leu Gly Thr Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met

				805				810					815		
Val	Pro	Ala	Ile	Ser	Leu	Ala	Tyr	Glu	Gln	Ala	Glu	Ser	Asp	Ile	Met
			820					825					830		
Lys	Arg	Gln	Pro	Arg	Asn	Pro	Lys	Thr	Asp	Lys	Leu	Val	Asn	Glu	Arg
		335					840					345			
Leu	Ile	Ser	Met	Ala	Tyr	Gly	Gln	Ile	Gly	Met	Ile	Gln	Ala	Leu	Gly
	850					855					860				
Gly	Phe	Phe	Thr	Tyr	Phe	Val	Ile	Leu	Ala	Glu	Asn	Gly	Phe	Leu	Pro
865					870				375						880
Phe	His	Leu	Leu	Gly	Ile	Arg	Glu	Thr	Trp	Asp	Asp	Arg	Trp	Ile	Asn
			885					890						895	
Asp	Val	Glu	Asp	Ser	Tyr	Gly	Gln	Gln	Trp	Thr	Tyr	Glu	Gln	Arg	Lys
		900					905						910		
Ile	Val	Glu	Phe	Thr	Cys	His	Thr	Ala	Phe	Phe	Val	Ser	Ile	Val	Val
	915						920					925			
Val	Gln	Trp	Ala	Asp	Leu	Val	Ile	Cys	Lys	Thr	Arg	Arg	Asn	Ser	Val
	930					935					940				
Phe	Gln	Gln	Gly	Met	Lys	Asn	Lys	Ile	Leu	Ile	Phe	Gly	Leu	Phe	Glu
945					950					955					960
Glu	Thr	Ala	Leu	Ala	Ala	Phe	Leu	Ser	Tyr	Cys	Pro	Gly	Met	Gly	Ala
			965						970					975	
Ala	Leu	Arg	Met	Tyr	Pro	Leu	Lys	Pro	Thr	Trp	Trp	Phe	Cys	Ala	Phe
		980					985						990		
Pro	Tyr	Ser	Leu	Leu	Ile	Phe	Val	Tyr	Asp	Glu	Val	Arg	Lys	Leu	Ile
	995						1000					1005			
Ile	Arg	Arg	Arg	Pro	Gly	Gly	Trp	Val	Glu	Lys	Glu	Thr	Tyr	Tyr	
	1010					1015					1020				